


```

RESULT 3
US-09-948-391A-26
: Sequence 26, Application US/09948391A
: Publication No. US20030027311A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: APPLICANT: Newton, Dianne L.
: APPLICANT: The United States of America
: APPLICANT: as represented by the Secretary of the
: APPLICANT: Department of Health and Human Services
: TITLE OF INVENTION: Recombinant Anti-Tumor Rhase
: FILE REFERENCE: 015280-243110US
: CURRENT APPLICATION NUMBER: US/09/948-391A
: CURRENT FILING DATE: 2002-05-10
: PRIOR APPLICATION NUMBER: US 60/079,751
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: PRIOR FILING DATE: 2000-08-17
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: Patentln Ver. 2.0
: SEQ ID NO 26
: LENGTH: 111
: TYPE: prt

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RESULT5
US-09-948-391A-22
; Sequence 22, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 22
LENGTH: 117
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbeiana ribonuclease with (His)6 tag, Met at
OTHER INFORMATION: Position 7, Met23Leu and Met58Leu substitutions
OTHER INFORMATION: (recombinant Met(-1) RacORI Met22Leu Met57Leu-(His)6)
US-09-948-391A-22

Query Match 98.2%; Score 595; DB 9; Length 117;
Best Local Similarity 97.3%; Pred. No. 5.4e-59;
Matches 108; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 MNMATTFOOKHIIINTPIICNTIMDNNTIYVGGCKRVTTFISSATTYKAICTGVINNV 60
DB 7 MNMATTFOOKHIIINTPIICNTIMDNNTIYVGGCKRVTTFISSATTYKAICTGVINNV 66
OY 61 LSTRFOLNCTRTSITPRPCPYSSRTETNTICVCKENQPVHFAIGRCRP 111
DB 67 LSTRFOLNCTRTSITPRPCPYSSRTETNTICVCKENQPVHFAIGRCRP 117

RESULT 6
US-09-948-391A-24
Sequence 24, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 24
LENGTH: 110
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbeiana ribonuclease with Glnser substitution
OTHER INFORMATION: (recombinant RacORI Q1S)
US-09-948-391A-21

Query Match 97.5%; Score 591; DB 9; Length 110;
Best Local Similarity 99.1%; Pred. No. 1.4e-58;

Matches 108; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 MNMATTFOOKHIIINTPIICNTIMDNNTIYVGGCKRVTTFISSATTYKAICTGVINNV 62
DB 2. MNMATTFOOKHIIINTPIICNTIMDNNTIYVGGCKRVTTFISSATTYKAICTGVINNV 61
OY 63 TTRFOLNCTRTSITPRPCPYSSRTETNTICVCKENQPVHFAIGRCRP 111
DB 62 TTRFOLNCTRTSITPRPCPYSSRTETNTICVCKENQPVHFAIGRCRP 110

RESULT 7
US-09-948-391A-19
Sequence 19, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 110
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbeiana ribonuclease with Met22Leu and
OTHER INFORMATION: Met57Leu substitutions (recombinant RacORI
US-09-948-391A-19

Query Match 96.4%; Score 584; DB 9; Length 110;
Best Local Similarity 96.4%; Pred. No. 8.5e-58;
Matches 106; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

OY 2 MNMATTFOOKHIIINTPIICNTIMDNNTIYVGGCKRVTTFISSATTYKAICTGVINNV 61
DB 1 MNMATTFOOKHIIINTPIICNTIMDNNTIYVGGCKRVTTFISSATTYKAICTGVINNV 60
OY 62 STTRFOLNCTRTSITPRPCPYSSRTETNTICVCKENQPVHFAIGRCRP 111
DB 61 STTRFOLNCTRTSITPRPCPYSSRTETNTICVCKENQPVHFAIGRCRP 110

RESULT 8
US-09-948-391A-6
Sequence 6, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27

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: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: PRIOR FILING DATE: 2000-08-17
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 6
: LENGTH: 105
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
: OTHER INFORMATION: ribonuclease with Met at position 1, (recombinant
: OTHER INFORMATION: Met(-1) RapRL1)
US-09-948-391A-6

Query Match          46.3%: Score 280.5; DB 9; Length 105;
Best Local Similarity 49.1%: Pred. No. 5.8e-24;
Matches 55: Conservative 15; Mismatches 33; Indels 9; Gaps 4;

QY 1 MONNATFOOKHIINT-PIICNTIMDNNIYIGGCKRVTTFIISATVKAICGTGVI-NM 58
Db 1 MODULTFQKHLITRVDNINMSTNLF----HCKDKNTFTYSRPEPVKAICKGIIASK 56
QY 59 NVLSTTRQNLTCRTSTTPPCPYSSRTETNYICVGCENQYPVHFGIGRC 110
Db 57 NVLTTSERYLSDC---NVTSRPKYKLLKSTNTECVTCENQAPVHFGVGHG 105

RESULT 9
US-10-153-882-2
: Sequence 2, Application US/10153882
: Publication No. US20030099629A1
: GENERAL INFORMATION:
: APPLICANT: GOLDENBERG, David M.
: APPLICANT: HANSEN, Hans
: APPLICANT: LEUNG, Shui-on
: TITLE OF INVENTION: RECOMBINANT ONCOMASE, AND CHEMICAL CONJUGATES AND
: FILE REFERENCE: 018733/0913
: CURRENT APPLICATION NUMBER: US/10/153,882
: PRIOR FILING DATE: 2002-05-24
: PRIOR APPLICATION NUMBER: US/09/265,901
: PRIOR FILING DATE: 1999-03-11
: PRIOR APPLICATION NUMBER: US 60/077,557
: PRIOR FILING DATE: 1998-03-11
: NUMBER OF SEQ ID NOS: 12
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 2
: LENGTH: 105
: TYPE: PRT
: ORGANISM: Rana pipiens
US-10-153-882-2

Query Match          45.6%: Score 276.5; DB 9; Length 105;
Best Local Similarity 49.1%: Pred. No. 1.6e-23;
Matches 55: Conservative 15; Mismatches 33; Indels 9; Gaps 4;

QY 1 MONNATFOOKHIINT-PIICNTIMDNNIYIGGCKRVTTFIISATVKAICGTGVI-NM 58
Db 1 MODULTFQKHLITRVDNINMSTNLF----HCKDKNTFTYSRPEPVKAICKGIIASK 56
QY 59 NVLSTTRQNLTCRTSTTPPCPYSSRTETNYICVGCENQYPVHFGIGRC 110
Db 57 NVLTTSERYLSDC---NVTSRPKYKLLKSTNTECVTCENQAPVHFGVGHG 105

RESULT 10
US-09-948-391A-13
: Sequence 13, Application US/09948391A
: Publication No. US20030027311A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.

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: APPLICANT: Newton, Dianne L.
: APPLICANT: The United States of America
: APPLICANT: as represented by The Secretary of the
: APPLICANT: Department of Health and Human Services
: TITLE OF INVENTION: Recombinant Anti-Tumor Rhase
: FILE REFERENCE: 015280-343110US
: CURRENT APPLICATION NUMBER: US/09/948,391A
: PRIOR FILING DATE: 2002-05-10
: PRIOR APPLICATION NUMBER: US 60/079,751
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 13
: LENGTH: 105
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
: OTHER INFORMATION: ribonuclease with Met at position 1 and Glnzser
: OTHER INFORMATION: substitution (recombinant Met(-1) RapRL1 Q15)
US-09-948-391A-13

Query Match          45.5%: Score 275.5; DB 9; Length 105;
Best Local Similarity 48.2%: Pred. No. 2.1e-23;
Matches 54: Conservative 15; Mismatches 34; Indels 9; Gaps 4;

QY 1 MONNATFOOKHIINT-PIICNTIMDNNIYIGGCKRVTTFIISATVKAICGTGVI-NM 58
Db 1 MSDULTFQKHLITRVDNINMSTNLF----HCKDKNTFTYSRPEPVKAICKGIIASK 56
QY 59 NVLSTTRQNLTCRTSTTPPCPYSSRTETNYICVGCENQYPVHFGIGRC 110
Db 57 NVLTTSERYLSDC---NVTSRPKYKLLKSTNTECVTCENQAPVHFGVGHG 105

RESULT 11
US-09-948-391A-28
: Sequence 28, Application US/09948391A
: Publication No. US20030027311A1
: GENERAL INFORMATION:
: APPLICANT: Newton, Dianne L.
: APPLICANT: Rybak, Susanna M.
: APPLICANT: The United States of America
: APPLICANT: as represented by The Secretary of the
: APPLICANT: Department of Health and Human Services
: TITLE OF INVENTION: Recombinant Anti-Tumor Rhase
: FILE REFERENCE: 015280-343110US
: CURRENT APPLICATION NUMBER: US/09/948,391A
: PRIOR FILING DATE: 2002-05-10
: PRIOR APPLICATION NUMBER: US 60/079,751
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 28
: LENGTH: 127
: TYPE: PRT
: ORGANISM: Rana pipiens
: FEATURE:
: OTHER INFORMATION: Rana pipiens ribonuclease (RapRL1) Clone 5a1b cDNA
: OTHER INFORMATION: insert
US-09-948-391A-28

Query Match          45.5%: Score 275.5; DB 9; Length 127;
Best Local Similarity 48.6%: Pred. No. 2.6e-23;
Matches 54: Conservative 15; Mismatches 33; Indels 9; Gaps 4;

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: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 11
: LENGTH: 104
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
: OTHER INFORMATION: ribonuclease with Gln1ser substitution
: OTHER INFORMATION: (recombinant RapLRI Q15)
US-09-948-391A-11

Query Match      44.6%: Score 270.5; DB 9; Length 104;
Best Local Similarity 48.2%: Pred. No. 7.5e-23;
Matches 53; Conservative 15; Mismatches 33; Indels 9; Gaps 4;

QY      3  NMATFOCKHAIINT-PIICNTIMDNNIYIVGGCKRVTFTFIISATYKAITGVI-MNNV 60
Db      2  DMLTFQCKHLNTRFDVDCNNIMSTNLF----HCKDKMTFIYSRPEPKAKICKIASKNV 57
      1  LSTRFQNLNCTRTSTIRPCPYSSRTETNYICVCKENQYVPHFAGIGRC 110
      58  LTTSEFYLSDC---NVTSSRCKYKLLKSTNTPFCVTCENQAPVHFVGVGHC 104

RESULT 14
US-09-948-391A-4
: Sequence 4, Application US/09948391A
: Publication No. US2003002731A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: APPLICANT: Newton, Dianne L.
: APPLICANT: The United States of America
: APPLICANT: as represented by The Secretary of the
: APPLICANT: Department of Health and Human Services
: TITLE OF INVENTION: Recombinant Anti-Tumor Rase
: FILE REFERENCE: 015280-343110US
: CURRENT APPLICATION NUMBER: US/09/948-391A
: CURRENT FILING DATE: 2002-05-10
: PRIOR APPLICATION NUMBER: US 60/079,751
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: PRIOR FILING DATE: 2000-08-17
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 4
: LENGTH: 104
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
: OTHER INFORMATION: ribonuclease with Met23Ieu substitution
: OTHER INFORMATION: (recombinant RapLRI Met23Ieu)
US-09-948-391A-4

Query Match      44.5%: Score 269.5; DB 9; Length 104;
Best Local Similarity 47.7%: Pred. No. 9.7e-23;
Matches 53; Conservative 15; Mismatches 34; Indels 9; Gaps 4;

QY      2  QNMATFOCKHAIINT-PIICNTIMDNNIYIVGGCKRVTFTFIISATYKAITGVI-MNN 59
Db      1  QDMLTFQCKHLNTRFDVDCNNIMSTNLF----HCKDKMTFIYSRPEPKAKICKIASKNV 56
QY      60  VLSTRFQNLNCTRTSTIRPCPYSSRTETNYICVCKENQYVPHFAGIGRC 110
Db      57  VLTTFEFLSDC---NVTSSRCKYKLLKSTNTPFCVTCENQAPVHFVGVGHC 104

RESULT 15
US-09-986-119-1
: Sequence 1, Application US/09986119

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1 Publication No. US20020187153A1
2 GENERAL INFORMATION:
3 APPLICANT: Rybak, Susanna M.
4 Newton, Dianne L.
5 Goldenberg, David M.
6 TITLE OF INVENTION: Immunotoxins Directed Against Malignant
7 Cells
8 NUMBER OF SEQUENCES: 3
9 CORRESPONDENCE ADDRESS:
10 ADDRESSEE: Townsend and Townsend and Crew LLP
11 STREET: Two Embarcadero Center, Eighth Floor
12 CITY: San Francisco
13 STATE: California
14 COUNTRY: USA
15 ZIP: 94111-3834
16 COMPUTER READABLE FORM:
17 MEDIUM TYPE: Floppy disk
18 COMPUTER: IBM PC compatible
19 OPERATING SYSTEM: PC-DOS/MS-DOS
20 SOFTWARE: Patent In Release #1.0, Version #1.30
21 CURRENT APPLICATION DATA:
22 APPLICATION NUMBER: US/09/986,119
23 FILING DATE: 07-May-2001
24 CLASSIFICATION: <Unknown>
25 PRIOR APPLICATION DATA:
26 APPLICATION NUMBER: US/09/071,672
27 FILING DATE: 01-May-1998
28 APPLICATION NUMBER: US 60/046,895
29 FILING DATE: 02-May-1997
30 ATTORNEY/AGENT INFORMATION:
31 NAME: Weber, Ellen Lauver
32 REGISTRATION NUMBER: 32,762
33 REFERENCE/DOCKET NUMBER: 015280-32510US
34 TELECOMMUNICATION INFORMATION:
35 TELEPHONE: (415) 576-0200
36 TELEFAX: (415) 576-0300
37 INFORMATION FOR SEQ ID NO: 1:
38 SEQUENCE CHARACTERISTICS:
39 LENGTH: 104 amino acids
40 TYPE: amino acid
41 STRANDEDNESS: <Unknown>
42 TOPOLOGY: linear
43 MOLECULE TYPE: protein
44 FEATURE:
45 NAME/KEY: Modified-site
46 LOCATION: 1
47 OTHER INFORMATION: /product="OTHER"
48 /note="Xaa = Glu or pyroglutamic acid"
49 FEATURE:
50 NAME/KEY: Protein
51 LOCATION: 1..104
52 OTHER INFORMATION:
53 Rana p13lens, "onc protein"
54 SEQUENCE DESCRIPTION: SEQ ID NO: 1:
55 US-09-986-119-1
56
57 Query Match 44.0% Score 266.5; DB 9; Length 104;
58 Best Local Similarity 48.2% Pred. No. 2.1e-22;
59 Matches 53; Conservative 15; Mismatches 33; Indels 9; Gaps 4
60
61 3 NMATFOOCHINT-PIICNTIMDNIIYVGOCCKVTTFIISATVYATCTGVI-MNNV 60
62 2 DMLTFOKKHITNTNDVDCDNTMSTNLF---HCKDKNFIVSRREPVAKIGIIASKNV 57
63 61 LSTRFOLNCTRTSTTPPCPVSSRTETNYICVCKENQYVHHFAGIGRC 110
64 58 LTSEFYLSDC---NVTSRPCKYVLKSTKNKFCVTCENQADVHHFVGSGC 104

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Search completed: June 25, 2003, 15:42:16
Job time : 17.6395 secs